DEH-790
DEH-690

HIGH-POWER COMPACT DISC PLAYER WITH FM/MW/LW TUNER

PUISSANT LECTEUR DE CD AVEC SYNTONISEUR FM/PO/GO

OWNER'S MANUAL
MODE D'EMPLOI

Thank you for purchasing this PIONEER product. Before attempting operation, be sure to read this manual.

Nous vous remercions d'avoir acheté cet appareil PIONEER. Avant de l'utiliser, prendre soin de lire ce manuel.

Vielen Dank für den Kauf dieses PIONEER Produkts. Diese Bedienungsanleitung vor der Inbetriebnahme sorgfältig durchlesen.

Muchas gracias por la adquisición de este producto PIONEER. Antes de tratar de operarlo, lea atentamente este manual.

Vi tackar dig för att du vait denna PIONEER-procukt. Läs först igenom denna bruksanvisning innan apparaten tas i bruk.

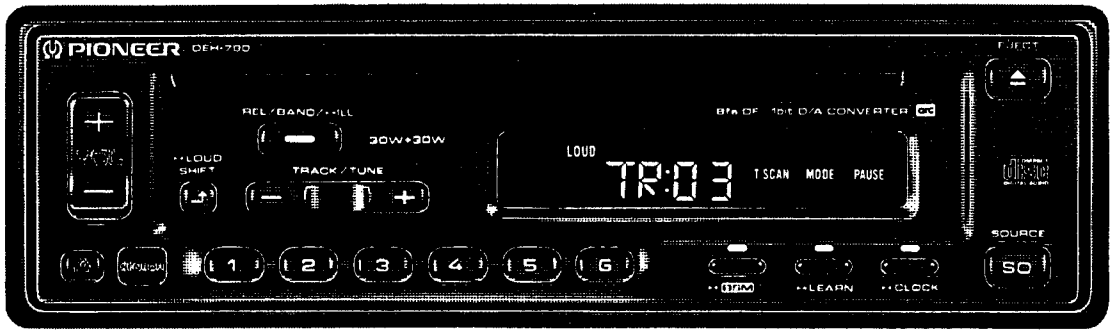
Takk for kjøpet av dette PIONEER-produktet. Les denne bruksanvisningen grundig før du tar apparatet i bruk.

Dank U zeer voor de aanschaf van dit PIONEER-produkt. Lees deze gebruiksaanwijzing goed door, voordat het toestel in gebruik genomen wordt.

Grazie per aver acquistato questo prodotto PIONEER. Leggere attentamente queste istruzioni prima di usare questa unità.

Kiitos PIONEER-tuotteen hankinnasta. Ennen käyttöä pyydämme kuitenkin lukemaan huolellisesti tämän käsikirjan.

Muito obrigado por comprar este produto PIONEER. Leia este manual de instruções completament antes de usar a unidade.



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PIONEER®

The Art of Entertainment

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Precautions

- *A "CLASS 1 LASER PRODUCT" label is affixed to the bottom of the player. (Fig. 5) (Fig. 6)*

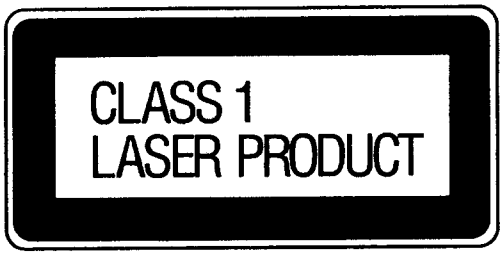

Fig. 5

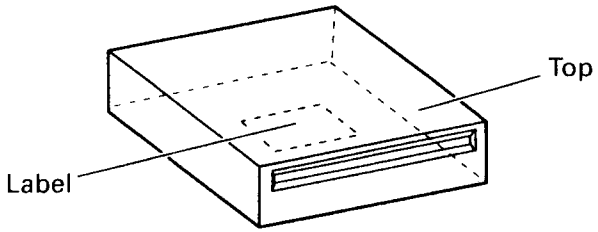

Fig. 6

- *To assure proper operation of the unit, keep the vehicle interior temperature within a normal range using the vehicle's air conditioner or heater.*
- *When replacing fuses, be sure to use only fuses of the rating prescribed on the fuse holder.*
- *Never remove the top case of the unit to attempt check or repairs. If operation of the unit is abnormal, contact your dealer or the nearest Pioneer Service Station.*
- *If the car's battery is disconnected for any reason, the preset memory will be erased and must be reprogrammed after reconnection of the battery.*

In case of trouble
When the unit does not operate properly, contact your dealer or the nearest authorized PIONEER Service Station.

• Electronic Tuner
Frequency allocation differs depending upon the area. This unit has been designed in accordance with the frequency allocations for Western Europe, Asia, the Middle and Near East, Africa, Australia and Oceania. Use in other areas may result in improper reception of AM.

Using the Removable Front Panel

The front panel of this unit can be removed to prevent theft.
Also, to prevent forgetting to remove the front panel, 5 seconds after the ignition is turned off, if the front panel is still attached, a buzzer will sound for a few seconds.
If you wish to cancel the sound of the buzzer, please do as follows. Keep the minus side (–) of button [4] depressed and turn the vehicle's ignition key from OFF to ON. By repeating this procedure, the sound of the buzzer will be restored.

Detaching the Front Panel

- *The front panel cannot be removed during disc loading or ejection.*

1. Press button [19], and the left-hand side of the panel will eject.
2. To remove the front panel, pull its left-hand side toward you. (Fig.7)

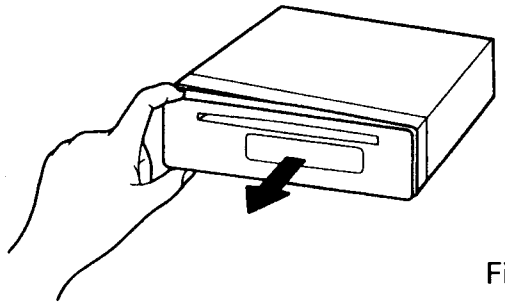

Fig. 7

- *Take care not to put pressure on the display or drop the front panel.*

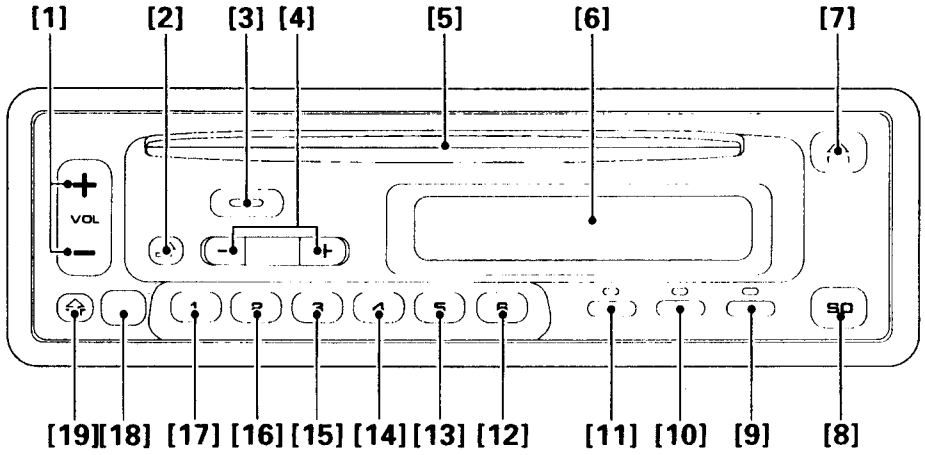

Fig. 1. Abb. 1.

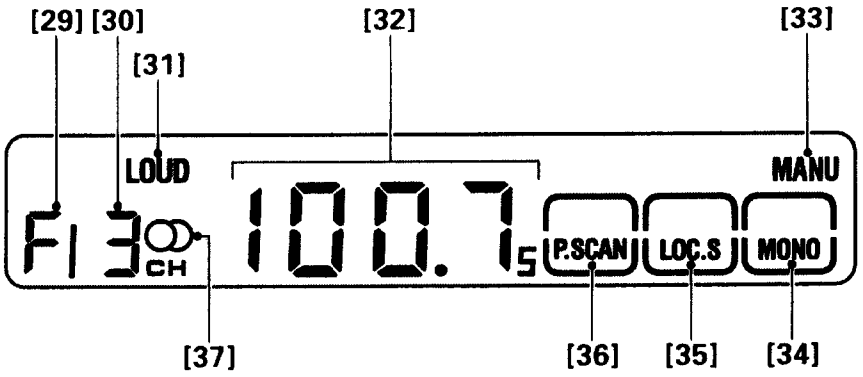

Fig. 3. Abb. 3.

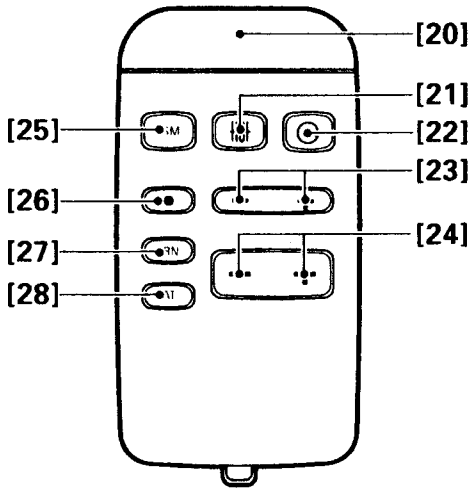

Fig. 2. Abb. 2.

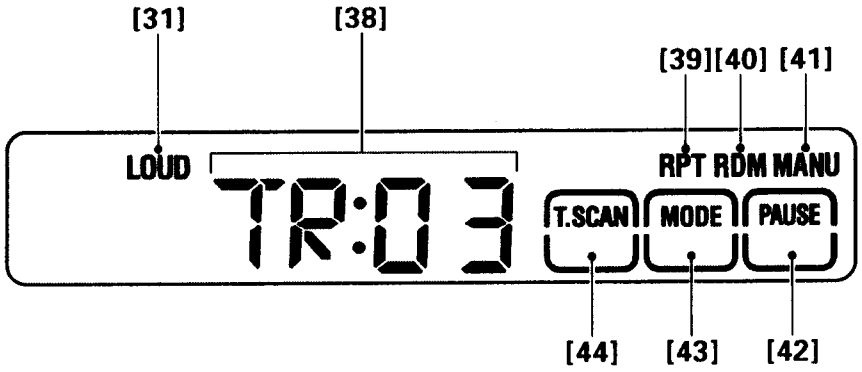

Fig. 4. Abb. 4.

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3. Enclose for safekeeping the front panel that is removed in the supplied protective case. (Fig. 8)
(Protective case is not included in DEH-690.)

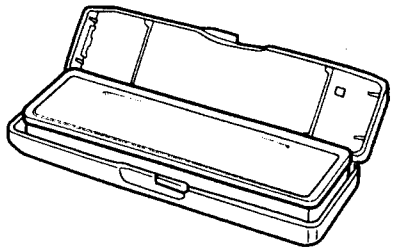

Fig. 8

Replacing the Front Panel

With a hollow in the right-hand end of the front panel aligned to projections on the right-hand front wall of the equipment, press the panel's left-hand side against the equipment to put it into place.(Fig. 9) (Fig. 10)

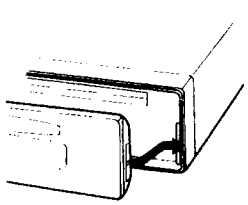

Fig. 9

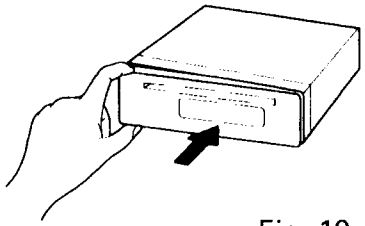

Fig. 10

- *When replacing the front panel, do not put pressure on the display or control buttons.*

Precautions

- *Do not touch the contacts on the front panel or on the unit body, since this may result in poor electrical contact. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth. (Fig. 11) (Fig. 12)*

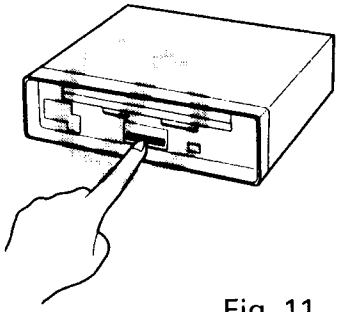

Fig. 11

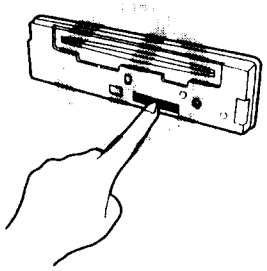

Fig. 12

Precautions When Handling the Front Panel

- *Do not leave the front panel in any area exposed to high temperatures or direct sunlight.*
- *Do not drop the front panel or otherwise subject it to strong impact.*
- *Do not allow such volatile agents as benzine, thinner, or insecticides to come into contact with the surface of the front panel.*
- *Never try to disassemble the front panel.*

Adjusting Volume and Tone

Parts Identification (Fig. 1)

[1] Volume/ Audio adjustment
[2] Shift/Loudness
[3] Illumination switch
[5] Disc Insertion Slot
[6] Display
[7] Eject
[8] Source selector

Switching Power On

Tuner

Press button [8] to switch the tuner power on. Press button [8] again to switch the power off.

CD Player

When a disc is inserted half-way into the disc insertion slot [5] with its label side upward, the disc is automatically loaded and played. To remove the disc, push button [7].

Changing the source

To change the source, push button [8] with the disc inserted in the slot.
At each press of the button, the source changes as follows: CD player — Tuner — OFF.

Adjusting Audio

Press button [1] to adjust the volume. Each press of button [2] changes the display and the function of button [1] as follows:
Volume — Fader — Bass — Treble — Balance

ENGLISH

Adjusting Volume

Pressing the (+) side of button [1] increases the volume, while the (–) side decreases it.
(Display shows "V–00" ~ "V–30".)

- *When driving your vehicle, be sure to keep the volume of the unit set low enough to allow you to hear sounds coming from outside.*

Adjusting the Fader

Balancing the sound volume between the front and rear speakers.
Gradually transfer the sound to the front speaker by holding down the (+) side of button [1]. Gradually transfer the sound to the rear speaker by holding down the (–) side of button [1].
(Display shows "F–R9" ~ "F–F9".)

- Please set "F- 0" when using a 2-speaker system.

Adjusting Bass

Pressing the (+) side of button [1] increases bass, while the (–) side decreases bass.
(Display shows "BS–6" ~ "BS+6".)

Adjusting Treble

Pressing the (+) side of button [1] increases treble, while the (–) side decreases treble.
(Display shows "TR–6" ~ "TR+6".)

Adjusting Balance

Pressing (+) side of button [1] shifts the balance to the left speaker, while the (–) side shifts it to the right speaker.
(Display shows "B–R9" ~ "B–L9".)

- *When you're adjusting fader, bass, treble, or balance settings, the indicator will stop at the center setting. About 5 seconds after adjustment has been made, the display returns to its previous state.*

Using the Loudness Function

Press button [2] for about 2 seconds and the "LOUD" indication will appear on the display. This loudness function lets you enhance both high and low frequencies to give a more natural sound at low volumes. To cancel this function, press button [2] again for about 2 seconds.

Switching Illumination Colour

Pressing button [3] for more than 2 seconds causes the illumination color to switch between green and amber.

Using the Radio

Parts Identification

Fig. 1

[3] Band
[4] Tuning/Local seek sensitivity/ Seek, Manual
[6] Display
[8] Source selector
[9] FM stereo/Mono
[10] Local station
[11] Preset scan/ Best stations memory (BSM)
[12]~[17] Preset

Fig. 3

[29] Band
[30] Preset number
[32] Frequency
[33] Manual
[34] FM mono
[35] Local station
[36] Preset scan
[37] FM stereo

Listening to the Radio

1. Turn on the tuner's power by pressing button [8].

Each time the button is pushed the main unit switches between tuner and power off modes.

- This operation will differ if there is a CD inserted in the CD player. Refer to the section on the source switch on page 5 for details.

2. Press Button [3] to select a band.

F I → F II → F III → M/L
(FM1) (FM2) (FM3) (MW/LW)

Use button [4] to switch between MW (531-1,602 kHz) and LW (153-281 kHz).

3. Use seek tuning to tune in a frequency.

Ensure that "MANU" [33] is not indicated on the display. (If so, turn it off by simultaneously pressing the (+) and the (–) sides of button [4]).

Press either the (+) side or the (–) side of button [4]. When the (+) side is pressed, the tuner will automatically receive high frequencies.

When the (–) side is pressed, it will automatically receive low frequencies.

4. Adjust volume and tone (see page 5).

5. Assign the tuned frequency to one of the Buttons in Bank [12]~[17] (preset memory).

Press and hold down one of the buttons in Bank [12]~[17] for at least 2 seconds. The frequency is assigned to the selected button when the preset number [30] stops flashing on the display. Up to 18 FM stations (6 each for FM1, FM2 and FM3), and six MW/LW stations can be assigned to the preset memory buttons in Bank [12]~[17].

6. Once a frequency is assigned to a Button in Bank [12]~[17], you just need to press that Button to tune it in.

This also causes the number of the button pressed to appear at Position [30] on the display.

Adjusting Seek Sensitivity

The seek tuning function of this tuner lets you select between a local setting for reception of strong stations only, and a DX (distant) setting for reception of weaker stations. The local setting also has 4 seek tuning sensitivity levels for FM and 2 levels for MW/LW to match local conditions.

Changing the Local Seek Sensitivity

1. Use button [3] to select a band.
2. Hold down the button [10] for more than 2 seconds, and the display will show you the current local seek sensitivity (Example: "LOC-2") for about 5 seconds.
3. While the local seek sensitivity remains on the display, press the (+) side of button [4] to increase the sensitivity level, and the (–) side to decrease the level as shown below.
   FM : LOC-1 ⇄ LOC-2 ⇄ LOC-3 ⇄ LOC-4
   MW/LW: LOC-1 ⇄ LOC-2
   The LOC-4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

- The display of local seek sensitivity returns to the frequency when about 5 seconds have elapsed after the change of sensivity.

Switching between Local and DX

Press button [10] to switch between Local and DX (distant) seek tuning. When the frame of local seek [35] is lit, seek tuning is performed with the local seek sensitivity. Otherwise, seek tuning is performed with the DX seek sensitivity.

Manual Tuning

Use manual tuning when stations are too weak to be picked up by seek tuning.

1. Turn on "MANU" [33] by simultaneously pressing the (+) side and the (–) side of button [4].
2. Each press of the (+) side of button [4] increases the frequency in 50 kHz steps in the FM band, 9 kHz in the MW band and 1 kHz in the LW band. Pressing the (–) side of button [4] decreases the frequency. Holding down either side of button [4] changes the frequency at high speed.

Switching between FM Stereo and Mono

Generally, it is best to allow the ARC (Automatic Reception Control) function to automatically set the optimum listening conditions. [37] turns on during stereo broadcast is in reception. When there is a large amount of noise, you can press button [9] for clearer mono reception (The frame of FM mono [34] turns on).

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BSM (Best Stations Memory)

This function automatically locates stronger stations and automatically assigns their frequencies to the buttons in Bank [12]~[17], from strongest to weakest. It comes in handy when trying to find local stations while driving.

1. Press button [3] and select a band.
2. Hold down button [11]. After about 2 seconds, a "beep" will sound to signal that the BSM search has started. At this time, "BSM" will flash on the display.
3. The frequency display will return once BSM search is complete, and frequencies are assigned to buttons 1 through 6 in Bank [12]~[17].

- At the end of the BSM search, the displayed frequency is that assigned to button [1] of Bank [12]~[17].
- You can cancel BSM search by pressing button [11] again.
- *If there are fewer than 6 strong stations in the area, some of the buttons in Bank [12]~[17] will not be assigned frequencies, so they will retain any frequencies assigned to them previously.*
- *BSM search may take as long as 30 seconds in areas where there are few strong stations.*

Preset Scan Tuning

This function lets you automatically monitor the stations assigned to the preset buttons.

1. Pressing button [11] turns on the frame of preset scan [36] and flashes preset number [30].
   Each station assigned to the buttons in Bank [12]~[17] will be automatically tuned in for about 8 seconds.
2. When you hear a station that you like, press button [11] again to cancel preset scan tuning and remain at that station.

Playing Compact Discs

Parts Identification

Fig. 1

[4] Track number search/ Fast forward, Reverse
[5] Disc insertion slot
[6] Display
[7] Eject
[8] Source selector
[9] Pause
[10] Mode
[11] Highlight scan

Fig. 4

[38] Track number
[39] Music repeat
[40] Random play
[41] Manual
[42] Pause
[43] Mode
[44] Highlight scan

Discs

- *Only use compact discs (optical digital audio discs) bearing the mark shown below. (Fig. 13)*

Fig. 13

- *Be sure never to touch the signal surface when handling discs. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge. (Fig. 14) (Fig. 15)*

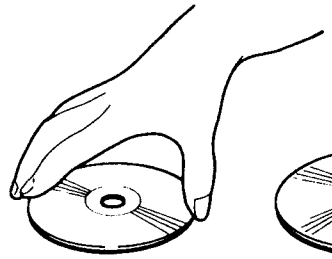


Fig. 14

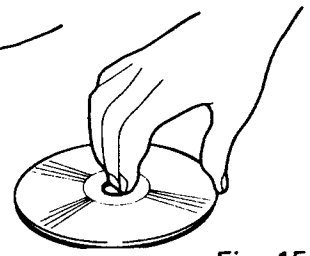


Fig. 15

- *Do not affix paper or tape, and avoid scratching the side of the disc which contains the label (contents of disc).*
- *The disc revolves at high speed within the player unit, so defective (cracked or badly bent) discs should not be used.*
- *Dust and/or finger smudges will have no direct effect on the signal recorded on the disc, but dirt can decrease the amount of light reflected from the recorded surface, thus affecting sound quality. If the disc should become soiled, gently wipe the surface with a soft lint-free cloth, wiping from the center of the disc to the edge. (Fig. 16)*

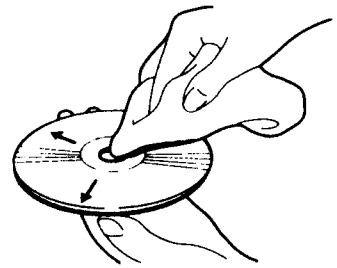


Fig. 16

- *Do not use record sprays or antistatic agents. Such volatile chemicals as benzine and thinner can also damage the surface of the disc and should not be used.*
- *As with traditional audio records, compact discs are made of plastic. To avoid warping, keep the discs in their cases and do not store them in places exposed to direct sunlight.*

Listening to the Compact Disc

1. On inserting the CD, with the label side up, half way into the CD slot [5], it will automatically be set into position and start to play.

The track number [38] indicator will light.

2. Adjust volume and tone (see page 5).

3. To stop CD playback, press button [8] turning the power off.

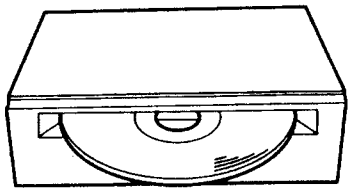
Pressing the button will change the source as follows: CD Player → Tuner → OFF.
Press button [8] again to restart playback. It will play from close to where it was previously stopped.

4. To remove or change discs, press button [7].

When the disc is ejected, pressing it will cause it to be set into position again, and playback to start.

Note:

- *In order to protect the disc, eject it after it has stopped rotating. The timing of ejection may differ according the disc.*
- *If a disc can only be inserted halfway, or if the disc does not play after being loaded, something may be wrong with the disc. Eject the disc by pressing button [7], and check it. If it is all right, insert it again.*
- *Insert the disc with its label (printed) side facing up. If the disc is inserted with the label side facing down, it will not play, and the recorded side may be damaged.*
- *Do not insert 2 discs into the slot at the same time. This may cause a malfunction.*
- *Do not leave an ejected disc in the insertion slot for extended periods since direct sunlight can cause warping. Always return discs to their cases and store in areas not exposed to direct sunlight. (Fig. 17)*



Discs should not be left like this for extended periods.

Fig. 17

- *Do not leave an ejected 8-cm CD in the slot while driving. The vibration may make it drop out.*
- *When driving on an unaven road, the player may not reproduce every sound property.*

Condensation

- *During winter the inside of the vehicle may be very cold. If the heater is turned on and the player is used soon after, the disc or optical parts (prism, lens, etc.) may became misted up. If the disc is misted up, wipe it with a soft cloth. If the optical parts are misted up, wait for about an hour for them to worm up. They will return to their normal condition.*

Track Number Search

The desired track on the disc currently being played can be selected by track (or song) number.

1. Ensure that "MANU" [41] is not indicated on the display. If so, turn it off by simultaneously pressing the (+) side and the (–) side of button [4].
2. Use the button [4] to select a track. Pressing the (+) side increases the track number [38], and pressing the (–) side decreases it. Holding the button down continuously increases or decreases the track number.

Using Fast Forward and Reverse

1. Press simultaneously both (+) and (–) sides of the button [4] "MANU" [41] will appear on the display. At this time the display will show the amount of elapsed disc play time (Example: "01'05"").
2. Press the (+) side of button [4] for fast forward, and the (–) side for reverse.

- Sound is output during fast forward and reverse operations.
- When a disc in which there are several seconds between tracks is used, the amount of elapsed disc-play time is shown, for example, as "–'02"", "–'01"" and "–'00"".

Pausing

1. Press button [9] to pause during disc playback (Track number [38] will change to "----", and "PAUSE" [42] frame appears).
2. Press button [9] again to release pause.

- It is possible to select music even during pause by using the track number search ("----" [38] will change to Track number, and "PAUSE" [42] frame turns off while the music is being selected).
  When the selection is completed, the playback will be paused at the beginning of the music.

Using Highlight Scan

Highlight Scan is designed to enable you to conveniently scan all pieces of music contained in the disc by playing 10 seconds each at your designated point of time after the start of the music. The starting time of play is set at one minute in factory. Therefore, the Highlight Scan begins one minute after the start unless you designate it otherwise.

When you do not want to change the factory-set time:

1. Pressing Button [11] turns on the frame of Highlight Scan [44].
2. The contained pieces of music will be played in sequence for 10 seconds each one minute after the beginning.
3. Press Button [11] again when your selected piece comes, and it will continue to play. At this point, the Highlight Scan discontinues to operate.

- The previous function automatically resumes when a piece of music with which Highlight Scan began returns.

Changing the Starting Time of Highlight Scan

When you want to set the starting time of the Highlight Scan to 30 seconds:

1. Indicate "MANU" [41] on the display by simultaneously pressing the (+) side and the (–) side of button [4].
2. Keep pressing either (+) or (–) side of Button [4] until the numerals reaches 30.
3. Pressing Button [11] for 2 or more seconds, turns on the frame of Highlight Scan [44].
   Highlight Scan will begin 30 seconds after the start of the next piece of music.

- The starting time of Highlight Scan can be designated at ten or tens of seconds only. A tenth or tenths of seconds can be disregarded.
- If a piece of music ends before your designated point of time at which Highlight Scan starts, the scanning is performed for its beginning 10 seconds.
- If a piece of music lasts less than 10 seconds, so does the Highlight Scan.
- You may wish to change the starting time longer without suspending the function. You may do so, however, only to a relatively long-playing piece of music because, as a matter of course, the time cannot be set so as to come after the end of the music.

Using Music Repeat and Random Play

Each Press of button [10] causes the mode to change as follows: Music Repeat, ("RPT" [39] and "MODE" [43] frames appear.) → Random Play ("RDM" [40] and "MODE" [43] frames appear) → Normal ("MODE" [43] frame turns off).

Music Repeat

1. To repeat the music you are listening to, select the repeat mode ("RPT" [39] appears).
2. To cancel music repeat, press button [10] to turn off "RPT" [39].

- When music repeat is not operational, the whole disc will be played repeatedly.

Random Play

1. To play music randomly, select the random play mode ("RDM" [40] appears). Once the current track has been played, the microprocessor will randomly select the next and subsequent tracks.
2. To cancel random play, press button [10] to turn off "RDM" [40].

- *Since selections are played in random order, the same selection may be played twice in succession.*

Using the Remote Control

Note:

Remote control is only available on DEH-790. DEH-690 does not have remote control function.

[18] Remote control sensor

[20] Transmitter

[21] Tuner

The tuner is selected. Pressing again turns off the power.

[22] CD

When a disc is inserted in the built-in CD player, the unit will switch to disc play mode. Pushing the button once again turns the power off.

[24] Volume

Press the (+) side to increase volume and the (–) side to decrease volume.

[27] Learn Button

Takes on the function of the button operation recorded with the learning function. Refer to the "Learning Function" section for details.

[28] Attenuator

Press to reduce the volume to 1/10 of its current setting (volume display flashes). Pressing again returns the volume to its original level.

- This function is available using the remote controller unit only.

Operating the Tuner

[23] Preset Channel

Press to tune the frequencies assigned to the preset button memory. Pressing the (+) side tunes in the next high preset button number, while (–) tunes in the next lower preset button number. The preset number changes at high speed when you hold either side of this button down.

[25] Best Stations Memory

Hold on this button for about 2 seconds, and you will hear a beep and see Best Stations Memory start.

[26] Band

Band changes.

F I → F II → F III → M/L

(FM1) (FM2) (FM3) (MW/LW)

Operating the CD Player

[23] Track Number Search

Press to search for a selection (track number) on the current disc. Press the (+) side to increase the track number on the display, and the (–) side to reduce the track number. Holding down either side of this button changes the track number at high speed.

Learning Function

Records one button from the main unit on the remote control's learn button. This can be convenient when a button which is used often is recorded.

1. While playing the CD, press button [10] on the main unit for about 2 seconds, until a beep is emitted. "LRN" will be displayed on the display.
   - *While the radio is on, the button can not be recorded on to the remote control's learn button.*
2. Press the button on the main unit that you want to use on the remote control.
3. Press the learn button [27] on the remote controller unit. The main unit button recorded can now be used from the remote control.
   - Perform button recording while "LRN" is displayed. If about 5 seconds pass without a button being recorded, the "LRN" display will clear, and the previously recorded button will remain in memory.

Preparing to Use the Remote Controller Unit

Loading Batteries

1. Remove the battery compartment cover from the remote controller unit.
2. Load 2 batteries, whose type is UM-4, AAA, or R03, as applicable, that come with the unit into the remote controller unit, ensuring that their polarity (+/–) is correct.
3. Replace the battery compartment cover.

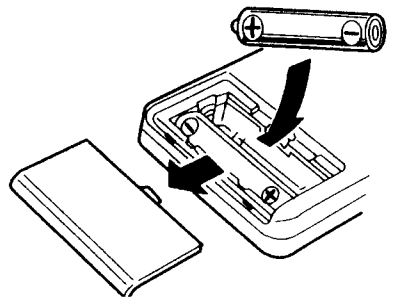


Fig. 18

ENGLISH

Precautions When Loading Batteries

Note the following precautions when loading batteries into the remote controller unit to avoid damage due to battery fluid leakage.

- *Always check carefully that you are loading batteries with their ⊕ and ⊖ poles facing in the proper directions.*
- *Never mix old and new batteries. Always replace batteries with 2 new ones.*
- *Some batteries may appear to be identical but have different voltage ratings. Never mix battery types.*
- *Some batteries can be recharged and some cannot. Be sure to carefully read the label for the batteries you use.*
- *To avoid damage to the remote controller caused by battery leakage, remove the batteries from the remote controller if you do not plan to use it for more than one month. If you find that fluid has leaked, thoroughly wipe out the battery compartment and load a set of new batteries.*

Precautions

- *Keep the remote controller unit in an area not exposed to long periods of direct sunlight.*
- *The remote controller unit may not operate properly if the transmitter of the remote controller unit is pointed towards the floor or the seat of the vehicle.*
- *Since the transmitter employs and infrared system, it may not operate properly while car stereo unit is exposed to direct sunlight. In such a case, block the sunlight from the sensor and then perform the desired operation.*
- *If the remote controller fails to operate unless it is brought close to the unit, it may indicate that battery power is low. Replace the batteries in the remote controller.*

Installing the Remote Controller Unit

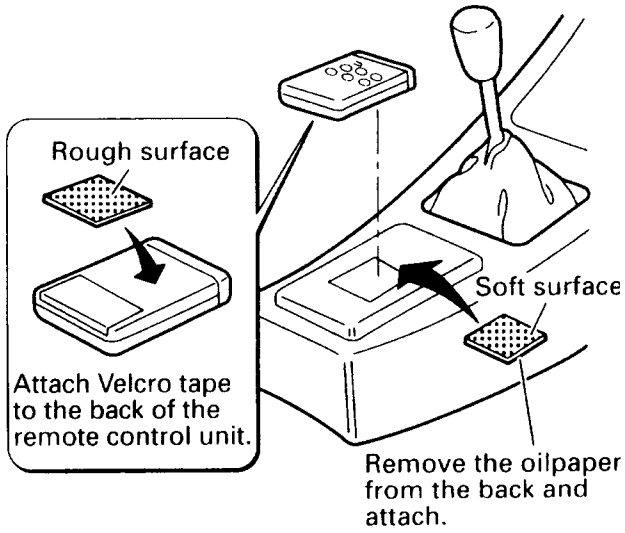


Fig. 19

Affix a strip of Velcro tape to the back of the remote control unit. Remove the oil paper on the back and affix into place.

- *Thoroughly wipe off the surface before affixing the Velcro tape.*

Using the Clock Display

Parts Identification (Fig. 1)

[6] Display
[9] Clock
[16] Minute Adjustment
[17] Hour Adjustment

Displaying the Time

The clock is displayed when button [9] is pressed (for more than 2 seconds) till it beeps. Following the same procedure will turn off clock display.

- The clock display can be used only when the main unit is in operation.
- When the clock display is ON, pressing other buttons will release the clock display. The display will be restored approximately 25 seconds after the button operation has been completed.

Adjusting the Time

Adjusting the Hours

Press button [9] till it beeps (for more than 2 seconds). While pressing button [9], press button [17] simultaneously to adjust the hour setting of the clock. Each press of button [17] advances the hour setting by one hour, and holding it down advances the setting at high speed.

Adjusting the Minutes

Press button [9] till it beeps (for more than 2 seconds). While pressing button [9], press button [16] simultaneously to adjust the minute setting of the clock. Each press of button [16] advances the minute setting by one minute, and holding it down advances the setting at high speed.

Specifications

General

Power source ..... 14.4 V DC (10.8 – 15.6 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 5.5 A
Dimensions (chassis) ..... 180(W) × 50(H) × 150(D) mm
(front face) ..... 188(W) × 58(H) × 18(D) mm
Weight ..... 1.5 kg

Amplifier

Max. power output ..... 30 W × 2 (EIAJ)
Continuous power output ..... 14 W × 2
(1 % dist. at 1 kHz)
Load impedance ..... 4 Ω (4 – 8 Ω allowable)
Nominal output level/
output impedance (pre out) ..... 500 mV/1 kΩ
Tone controls (bass) ..... ±12 dB (100 Hz)
(treble) ..... ±12 dB (10 kHz)
Loudness contour ..... +10 dB (100Hz), + 6.5 dB (10 kHz)
(volume: – 30 dB)

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal format ..... Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear
Frequency characteristics ..... 5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Dynamic range ..... 90 dB (1 kHz)
Number of channels ..... 2 (stereo)

FM tuner

Frequency range ..... 87.5 – 108 MHz
Usable sensitivity ..... 11 dBf (1.0 µV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity ..... 16 dBf (1.7µV/75 Ω, mono)
Signal-to-noise ratio ..... 70 dB (IEC-A network)
Distortion ..... 0.3 % (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 30 – 15,000 Hz (± 3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range ..... 531 – 1,602 kHz
Usable sensitivity ..... 18 µV (25 dB) (S/N: 20 dB)
Selectivity ..... 50 dB (± 9 kHz)

LW tuner

Frequency range ..... 153 – 281 kHz
Usable sensitivity ..... 30 µV (30 dB) (S/N: 20 dB)
Selectivity ..... 50 dB (± 9 kHz)

Note:
Specifications and the design are subject to possible modification with-out notice due to improvements.

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